

**Soil Moisture Active Passive (SMAP) Applications Workshop**  
**NOAA Silver Spring Metro Complex Building 3 (SSMC3) 1325 East West Highway, Silver**  
**Spring, MD 20910**  
**9-10 September 2009**

The NASA Soil Moisture Active Passive (SMAP) mission has a targeted launch date of 2013 to provide global measurements of soil moisture and freeze/thaw state ( <a href="http://smap.jpl.nasa.gov/">http://smap.jpl.nasa.gov/</a> ). SMAP applications include improving drought and flood guidance, agricultural productivity estimation, weather forecasting, climate predictions, disease risk assessment, and national defense. A SMAP Applications Workshop is planned to share information about SMAP applications and to inform the SMAP Mission about the challenges facing SMAP users. The workshop will provide the input required to write the SMAP Applications Plan.		
9 September Wednesday		
7:30am	Registration	
8:30am - Noon	NOAA Leadership	NOAA Welcome
	Dara Entekhabi, SMAP SDT Leader	SMAP Welcome, Charge to workshop
	Teresa Fryberger, NASA	NASA Applied Sciences Program
	Jared Entin, NASA	SMAP Program
	Kent Kellogg, NASA	Overview of SMAP mission & instruments
	Eni Njoku & Peggy O'Neill, NASA	Overview of SMAP data products
	9:40-10 am Break	
Applications in the Context of SMAP Moderator Xiwu Zhan, NOAA SMAP Liaison		
	Stephane Belair, Environment Canada	Weather and climate forecasting
	Michael Ek and Xiwu Zhan, NOAA NCEP	Weather and climate forecasting
	James Verdin, USGS	Operational drought forecasting
	Brian Cosgrove, NWS OHD	Flood monitoring and prediction
	Wade Crow, USDA ARS	Agricultural productivity
	Gregory Glass, JHBSPH	Human health
	Michael Tischler, USACE	National defense
	Ramakrishna Nemani, NASA	Ecosystem carbon balance
Noon - 1pm	Lunch and Posters	
<i>The rest of the workshop will be characterized by small-group discussions (breakouts), organized by SMAP application areas to answer three questions:</i> <ul style="list-style-type: none"><li><i>What are the known and potential SMAP applications?</i></li><li><i>How will SMAP products be used to realize applications and what are the ancillary data needs?</i></li><li><i>How can we engage the SMAP Community of Practice, identify the SMAP Community of Potential, and facilitate exchange with the SMAP Mission?</i></li></ul> <i>Each of the breakout sessions (I-III) feeds into the next, so we plan to have plenary sessions between breakouts to hear the reports.</i>		

9 September Wednesday (continued)		
1:00 - 5:00 pm	Wade Crow, SMAP SDT	Charge to Breakout I
	Breakout I -- SMAP Applications What are the known and potential SMAP applications?	
	3:00-3:30pm Break	
	Plenary - Reports from Breakout I and Discussion	
10 September Thursday		
8:30 am - Noon	Randy Koster, SMAP SDT	Charge to Breakout II
	Breakout II – SMAP applications requirements/SMAP data products How will SMAP products be used to realize applications and what are the ancillary data needs?	
	10:30-11:00 am Break	
	Plenary - Reports from Breakout II and Discussion	
Noon - 1pm	Lunch and Posters	
1:00 - 4:30 pm	John Kimball, SMAP SDT	Charge to Breakout III
	Breakout III - SMAP pre-launch outreach to applications How can we engage the SMAP Community of Practice, identify the SMAP Community of Potential, and facilitate exchange with the SMAP Mission?	
	3:00-3:30 pm Break	
	Plenary - Reports from Breakout III and Discussion	
4:30 pm	Susan Moran, SMAP SDT	Final Summary and Discussion
5 pm	Adjourn	
11 September Friday		
9-11am	SMAP Applications Plan Committee	Meet at GSFC.
Acronyms:		
ARS	Agricultural Research Service	
GSFC	Goddard Space Flight Center	
JHBSPH	Johns Hopkins Bloomberg School of Public Health	
NOAA	National Oceanic and Atmospheric Administration	
NCEP	National Centers for Environmental Prediction	
NWS	National Weather Service	
OHD	Office of Hydrologic Development	
SDT	Science Definition Team	
SMAP	Soil Moisture Active Passive	
SSMC3	Silver Spring Metro Complex Building 3	
USACE	United States Army Corps of Engineers	
USDA	United States Department of Agriculture	
USGS	United States Geological Survey	
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